

Title (en)

DEGRADABLE CIGARETTE FILTER: PILL WITH MULTILAYERED COATING

Title (de)

ABBAUBARER ZIGARETTENFILTER. PILLE MIT MEHRLAGIGER BESCHICHTUNG

Title (fr)

FILTRE DE CIGARETTE DÉGRADABLE : BOULOCHE AVEC REVÊTEMENT À COUCHES MULTIPLES

Publication

EP 2523569 A4 20140226 (EN)

Application

EP 10843450 A 20101206

Priority

- US 68791210 A 20100115
- US 2010059016 W 20101206

Abstract (en)

[origin: US2011174324A1] A degradable cigarette filter includes a filter element of a bloomed cellulose acetate tow and a plug wrap surrounding the filter element, and a pill dispersed in the tow. The pill includes a material adapted to catalyze hydrolysis of the cellulose acetate tow that is encapsulated with an inner layer of a water soluble or water permeable material and an outer layer of a cellulose acetate having a D.S. in the range of 2.0-2.6.

IPC 8 full level

A24D 3/10 (2006.01)

CPC (source: EP KR US)

A24D 3/061 (2013.01 - EP US); **A24D 3/068** (2013.01 - EP US); **A24D 3/10** (2013.01 - EP KR US); **A24D 3/14** (2013.01 - EP KR US)

Citation (search report)

- [Y] US 2009151738 A1 20090618 - ROBERTSON RAYMOND M [US], et al
- [Y] US 5417682 A 19950523 - WONG PATRICK S L [US], et al
- See references of WO 2011087619A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2011174324 A1 20110721; **US 8397733 B2 20130319**; CN 102711533 A 20121003; CN 102711533 B 20140514; EP 2523569 A1 20121121; EP 2523569 A4 20140226; JP 2013516985 A 20130516; JP 5544432 B2 20140709; KR 101319128 B1 20131017; KR 20120107511 A 20121002; MX 2012008256 A 20120803; WO 2011087619 A1 20110721; WO 2011087619 A9 20120913

DOCDB simple family (application)

US 68791210 A 20100115; CN 201080061520 A 20101206; EP 10843450 A 20101206; JP 2012548937 A 20101206; KR 20127020508 A 20101206; MX 2012008256 A 20101206; US 2010059016 W 20101206